

Pre-Lab Exercise for *Kirchhoff's Rules*

1. Briefly discuss the circuit to be studied in Part I of this lab. Include a discussion of the measurements that will be made on the circuit.
2. Which of Kirchhoff's rules will be tested in Part I of this lab? State the rule.
3. Briefly discuss the circuit to be studied in Part II of this lab. Include a discussion of the measurements that will be made on the circuit.
4. Which of Kirchhoff's rules will be tested in Part II of this lab? State the rule.
5. Briefly discuss the circuit to be studied in Part III of this lab. Include a discussion of the measurements that will be made on the circuit.
6. Consider the last circuit shown in the lab write-up. The currents are assumed to be in the directions shown. Use the junction rule to write an equation relating I_1 , I_2 and I_3 .